<u>ABSTRACT</u>

The invention relates to a buck converter comprising: [[-]] a pair P O of switches SB, SH in series and connected to an input terminal B of the converter by the switch SB, [[-]] K other additional pairs P1, P2,..., Pi,... PK-1, PK of switches in series between another input terminal A and the switch SH of the pair P 0, with i = 1, 2, ... K-1, K, the two switches of the same additional pair P i are connected in series via an energy recovery inductor Lr i; [[-]] K input groups, Gin_1, Gin_2,...Gin_i,... Gin_K-1, Gin_K, of Ni capacitors C series; [[-]] K output groups, Gout 1, each in Gout 2,...Gout i,... Gout K-1, Gout K, of Mi capacitors C each in series. The switches P O and the K additional pairs are simultaneously controlled by first and second complementary control signals.

Applications: high-efficiency converters with low-output voltages.

Figure: 2

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